

Applicant : Jeffrey A. Lewno
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providing a substrate having a first glass surface and an opposing second surface;

providing an attachment member to be adhered to said first glass surface, said attachment member having a mounting surface;

forming a rapid set, rapid cure, two component urethane adhesive by mixing an isocyanate component and a polyol component;

depositing a layer of said adhesive on at least one of said attachment member mounting surface and said first glass surface, said layer of adhesive consisting essentially of
said rapid set, rapid cure, two component urethane adhesive;

positioning said attachment member and said substrate after said mixing of said components and said depositing of said layer on said mounting surface or said first glass surface such that said adhesive layer is disposed between and contacting said attachment member mounting surface and at least a portion of said first glass surface of said substrate without exposure of said attachment member on said opposing second surface of said substrate;

said adhesive setting up during a set up period while said adhesive layer holds said attachment member against movement resulting from the weight of said substrate and/or attachment member and/or from application of a relatively slight force; and

allowing said adhesive layer to cure, said cured adhesive layer bonding said attachment member to said first glass surface prior to installation of said assembly in the vehicle.

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The method of claim 131 including providing said isocyanate component as compounds with isocyanate functionality and providing said polyol component as a mixture of a) polyol compounds with at least two hydroxy functionalities and b) at least one high density plural amine compound with at least two amino functionalities [and/or amino functionality], and wherein the ratio of isocyanate functionality to hydroxy [and] and/or amino functionality is from about 0.9 to about 2.0.

11 -141- (Amended)

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The method of claim 132 including providing said high amine density plural amine compound as a reaction product of (i) at least one of pentaerythritol, glucose, and sucrose, and (ii) at least one member selected from the group consisting of ammonia and amino alkanes of the formula, $C_xH_nHN_2$, where x ranges from 1 to 20 and n is such that the alkane is saturated.

23 -153- (Amended)

A method of forming a bonded vehicular assembly by adhering a load-bearing attachment member to a glass surface, said method comprising:

providing a substrate having a first glass surface and an opposing second surface;

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providing an attachment member to be adhered to said first glass surface, said attachment member having a mounting surface;

forming a rapid set, rapid cure, two component urethane adhesive with an isocyanate component and a polyol component by metering a controlled volume of each component and mixing said metered volumes of said components;